Title (en)

METHOD FOR ADDITIVE PRODUCTION OF THREE-DIMENSIONAL OBJECTS

Title (de)

VERFAHREN ZUR ADDITIVEN HERSTELLUNG DREIDIMENSIONALER OBJEKTE

Title (fr)

PROCÉDÉ DE FABRICATION ADDITIVE D'OBJETS TRIDIMENSIONNELS

Publication

EP 3909750 A1 20211117 (DE)

Application

EP 21183033 A 20170707

Priority

- DE 102017105056 A 20170309
- EP 17180166 A 20170707

Abstract (en)

[origin: US2018257140A1] A device (1) for the additive production of three-dimensional objects (2) by successive, layered, selective irradiation and accompanying successive, layered, selective solidification of construction material layers of a construction material (3) that can be solidified by means of an energy beam, comprising: a plurality of irradiation devices (6 and 7), which are designed to generate an energy beam, a control device (16), which is designed to generate control information controlling the operation of the irradiation devices (6 and 7) and to control the operation of the irradiation devices (6 and 7) on the basis of generated control information, wherein the control device (16) is designed to generate first control information in order to control the operation of a first irradiation device, on the basis of which the first irradiation device generates a first energy beam (4a) for the successive, layered, selective solidification of a construction material layer.

Abstract (de)

Verfahren zur additiven Herstellung dreidimensionaler Objekte (2).

IPC 8 full level

B29C 64/268 (2017.01); **B22F 10/00** (2021.01); **B22F 10/20** (2021.01); **B22F 10/30** (2021.01); **B22F 12/00** (2021.01); **B29C 64/153** (2017.01); **B29C 64/277** (2017.01); **B29C 64/364** (2017.01); **B29C 64/393** (2017.01); **B33Y 10/00** (2015.01); **B33Y 30/00** (2015.01); **B33Y 40/20** (2020.01); **B33Y 50/02** (2015.01)

CPC (source: CN EP US)

B22F 3/003 (2013.01 - CN); **B22F 10/28** (2021.01 - CN EP US); **B22F 10/362** (2021.01 - CN EP US); **B22F 10/364** (2021.01 - CN EP US); **B22F 12/13** (2021.01 - CN EP US); **B22F 12/45** (2021.01 - CN EP US); **B23K 26/082** (2015.10 - CN US); **B29C 64/153** (2017.08 - CN EP US); **B29C 64/268** (2017.08 - CN EP); **B29C 64/277** (2017.08 - CN EP US); **B29C 64/364** (2017.08 - EP US); **B29C 64/393** (2017.08 - CN EP US); **B33Y 10/00** (2014.12 - CN EP US); **B33Y 30/00** (2014.12 - CN EP US); **B33Y 40/20** (2020.01 - EP); **B33Y 50/02** (2014.12 - CN EP); **C04B 35/622** (2013.01 - CN); B22F 10/36 (2021.01 - CN EP US); B22F 12/49 (2021.01 - CN EP US); B22F 12/90 (2021.01 - CN EP US); B22F 2203/11 (2013.01 - US); B33Y 50/02 (2014.12 - US); Y02P 10/25 (2015.11 - EP)

Citation (search report)

- [A] US 2015064048 A1 20150305 - BESSAC CHRISTOPHE [FR], et al
- [A] US 2016250717 A1 20160901 - KRUGER URSUS [DE], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3372404 A1 20180912; **EP 3372404 B1 20210825**; CN 108568971 A 20180925; CN 108568971 B 20201103; CN 112277320 A 20210129; DE 102017105056 A1 20180913; EP 3909750 A1 20211117; JP 2018149595 A 20180927; JP 2020073288 A 20200514; JP 6640825 B2 20200205; JP 6928072 B2 20210901; US 11911959 B2 20240227; US 2018257140 A1 20180913

DOCDB simple family (application)

EP 17180166 A 20170707; CN 201710772445 A 20170831; CN 202011073369 A 20170831; DE 102017105056 A 20170309; EP 21183033 A 20170707; JP 2017243678 A 20171220; JP 2019236338 A 20191226; US 201815916855 A 20180309